Notice of Allowability	Application No.	Applicant(s)	
	10/727,943	YADAV, SATYENDRA	
	Examiner	Art Unit	
	Stephen M. D'Agosta	2617	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to *the amendment received 1-26-07 (advises the examiner to do an Exmr's Amendment)*.

2. ☒ The allowed claim(s) is/are *7,9,11,13,15,17 and 19-23*.

3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
   a) ☐ All b) ☐ Some* c) ☐ None of the:
      1. ☐ Certified copies of the priority documents have been received.
      2. ☐ Certified copies of the priority documents have been received in Application No. _____ .
      3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

   * Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.

5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
   (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
      1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
   (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.

   Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).

6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☐ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)
3. ☐ Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date _____
4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material
5. ☐ Notice of Informal Patent Application
6. ☐ Interview Summary (PTO-413), Paper No./Mail Date _____ .
7. ☒ Examiner's Amendment/Comment
8. ☐ Examiner's Statement of Reasons for Allowance
9. ☐ Other _____.

DETAILED ACTION

EXAMINER'S AMENDMENT

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with David Guglielmi on 2-15-2007 (eg. via After Final amendment). These amendments are per the recommendations of the examiner (see Final dated 10/26/06).

Please amend the claims as follows:

1 - 6. (Canceled).

7. (currently amended) An electronic appliance, comprising:

one or more dipole antenna(e);

one or more wireless network interface(s), coupled with the one or more dipole antenna(e), to communicate with other devices; and

an extender engine coupled with the wireless network interface(s), the extender engine to function as a client to a first wirelcss network access point and the extender engine to function as a second wireless network access point to one or more other client(s), including performing one or more functions chosen from the group consisting of beacon, client connection table maintenance, client authentication, and dynamic host configuration protocol (DHCP) service;

wherein the extender engine functions as a second access point to one or more other client(s) sends and receives communications between client(s) on an extended coverage network and resource(s) on a primary network; and

wherein the extender engine sends and receives communications between client(s) on an extended coverage network and resource(s) on a primary network translates the communication(s) between the primary network and the extended coverage network; and

wherein the extender engine translates the communication(s) between the primary network and the extended coverage network translates the communication(s) between a first network protocol and a second network protocol.

8. (Canceled)

9. (currently amended) The electronic appliance of claim ~~8~~ 7, wherein the extender engine to send and receive communications between client(s) on an e~tcnded coverage network and resource(s) on a primary network comprises: the extender engine to transmit the communication(s) as received.

10. (Canceled)

11. (currently amended) The electronic appliance of claim ~~10~~ 7, wherein the extender engine to translate the communication(s) between the primary network and the extended coverage network comprises: the extender engine to utilize a network address translation (NAT) table(s) to determine for which client(s) the communication(s) was intended.

12. (Canceled)

13. (currently amended) A storage medium comprising content which, when executed by an accessing machine, causes the accessing machine to function as a client to a first wireless network access point and to function as a second wireless network access point to one or more other client(s), including performing one or more functions chosen from the group consisting of: beacon, client connection table maintenance, client authentication, and dynamic host configuration protocol (DHCP) service;

wherein said accessing machine comprises:

one or more dipole antenna(e);

one or more wireless network interface(s), coupled with the one or more dipole antenna(e), to communicate with other devices; and

an extender engine coupled with the wireless network interface(s), the extender engine to function as a client to a first wirelcss network access point and the extender engine to function as a second wireless network access point to one or more other client(s), and

wherein the extender engine to function as a second access point to one or more other client(s) sends and receives communications between client(s) on an extended coverage network and resource(s) on a primary network; and

wherein the extender engine sends and receives communications between client(s) on an extended coverage network and resource(s) on a primary network translates the communication(s) between the primary network and the extended coverage network; and

wherein the extender engine translates the communication(s) between the primary network and the extended coverage network translates the communication(s) between a first network protocol and a second network protocol.

14. (Canceled)

15. (currently amended) The storage medium of claim ~~14~~ 13, wherein the content to send and receive communications between client(s) on an extended coverage network and resource(s) on a primary network comprises content which, when executed by the accessing machine, causes the accessing machine to transmit the communication(s) as received.

16. (Canceled)

17. (currently amended) The storage medium of claim ~~16~~ 13, wherein the content to translate the communication(s) between the primary network and the extended coverage network comprises content which, when executed by the accessing machine, causes the accessing machine to utilize a network address translation (NAT) table(s) to determine for which client(s) the communication(s) was intended.

18. (Canceled)

19. (currently amended) An apparatus, comprising:

one or more dipole antenna(e);

one or more wireless network interface(s), coupled with the dipole antenna(e), to communicate with other devices; and

control logic extender engine coupled with the wireless network interface(s) , the control logic extender engine to function as a client to a first wireless network access point and the control logic extender engine to function as a second wireless network access, point to one or more other client(s), including performing one or more functions chosen from the group consisting of: beacon, client connection table maintenance, client authentication, and dynamic host configuration protocol (DHCP) service;

wherein the extender engine to function as a second access point to one or more other client(s) sends and receives communications between client(s) on an extended coverage network and resource(s) on a primary network; and

wherein the extender engine sends and receives communications between client(s) on an extended coverage network and resource(s) on a primary network translates the communication(s) between the primary network and the extended coverage network; and

wherein the extender engine translates the communication(s) between the primary network and the extended coverage network translates the communication(s) between a first network protocol and a second network protocol.

20. (currently amended) The apparatus of claim 19, wherein the control logic extender engine to function as a second access point complies with the IEEE 802.11 specification.

21. (currently amended) The apparatus of claim 20, further comprising the control logic extender engine to create two or more virtual networks.

22. (currently amended) The apparatus of claim 21, further comprising the control logic extender engine to time-share one wireless network interface between two or more virtual networks.

23. (currently amended) The apparatus of claim 22, wherein the control logic extender engine to time-share utilizes one or more of 802.11 RTS/CTS and CTS-To-Self techniques.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Stephen M. D'Agosta whose telephone number is 571-272-7862. The examiner can normally be reached on M-F, 8am to 5pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Bill Trost can be reached on 571-272-7872. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

STEVE M. D'AGOSTA
PRIMARY EXAMINER

2-16-07